<u>AMENDMENT TO THE CLAIMS</u>

- 1. (original) A fracture fixation pin, comprising:

 a) a solid first portion having a first diameter and first threads of a first thread diameter, said first portion having a tip at one and and
 - b) a solid second portion coupled to said second end of said first portion, said second portion having a second diameter larger than said first diameter, and second threads of a second thread diameter larger than said first thread diameter, said second threads extending in a same direction as said first threads; and
 - c) a solid non-threaded shaft portion coupled to said second portion, said shaft portion having a cross-sectional dimension which does not exceed a dimension of said second diameter,

wherein said second portion is provided with a plurality of longitudinal grooves extending crosswise through at least one of said second threads, said grooves being located adjacent said shaft portion and spaced-apart about an outer circumference of said second portion.

- 2. (original) A fracture fixation pin according to claim 1, wherein: said first and second\threads are continuous.
- .3. (original) A fracture fixation pin according to claim 1, wherein: said tip includes a plurality of cutting flutes.

4. (original) A fracture fixation pin according to claim 1, wherein:
said tip is substantially conical and includes a surface angled at 30° relative to a longitudinal axis.

5. (currently amended) a A fracture fixation pin according to claim 1, wherein:
said first portion has a first length of approximately 2.55 inches and a first
diameter of approximately 0.125 inch, and said second portion has a second length of
approximately 0.6 inch and a second diameter of approximately 0.156 inch.

6. (original) A fracture fixation pin according to claim 1, wherein: said shaft portion is substantially cylindrical.

7. (original) A fracture fixation pin according to claim 1, wherein: said shaft is frangibly coupled to second portion.

8. (original) A fracture fixation pin according to claim 1, wherein:

a channel is provided about said pin between said second portion and said shaft portion.

9. (original) A fracture fixation pin according to claim 1, wherein:
said shaft has cross-sectional dimension smaller than said second diameter of said second portion.

- 10. (original) A fracture fixation pin according to claim 1, wherein: said pin is not provided with a head portion.
- 11. (original) A fracture fixation pin according to claim 1, wherein: all threads on said first portion have said first thread diameter.
- 12. (original) A fracture fixation pin according to claim 1, wherein: said pin is made of metal.
- 13. (canceled)
- 14. (currently amended) A fracture fixation pin according to claim 13 1, wherein: said plurality of grooves includes exactly three grooves spaced apart 120° about said circumference of said second portion.
- 15. (currently amended) A fracture fixation pin according to claim 13 1, wherein:

 each of said grooves has a depth which extends below said second threads.
- 16. (currently amended) A fracture fixation pin system, comprising:
- a) a pin including
- i) a first portion having a first diameter and first threads of a first thread diameter, said first portion having a tip at one end and a second end,

- ii) a second portion coupled to said second end of said first portion, said second portion having a second diameter larger than said first diameter, and second threads of a second thread diameter larger than said first thread diameter, said first and second threads being continuous with each other and having a common pitch and thread depth, and
- iii) a non-threaded shaft portion coupled to said second portion, said shaft portion having a cross-sectional dimension which does not exceed a dimension of said second diameter,

said second portion adjacent said shaft portion defining a plurality of longitudinal spaced apart negative spaces about an outer circumference thereof; and

- b) a driver member including a socket having structure adapted to interfere with said negative spaces.
- 17. (original) A fracture fixation pin system according to claim 16, further comprising:
- c) a mill tool having structure adapted to remove bone and define an opening in the bone into which said socket of said driver member can be inserted.
- 18. (currently amended) A fracture fixation pin, comprising:
- a) a first portion having a first diameter and first threads of a first thread diameter, said first portion having a tip at one end and a second end; and
- b) a second portion having a first end coupled to said second end of said first portion and a second free end, said second portion having a second diameter larger than said first diameter, and second threads of a second thread diameter larger than said first thread diameter, said first and second threads being continuous with each other and having a

common pitch and thread depth, wherein said second free end is provided with a plurality longitudinal grooves spaced-apart about a <u>an outer circumference</u> of said second portion and extending crosswise through at least one of said second threads.

19. (original) A fracture fixation pin

circumference of the second portion.

19. (original) A fracture fixation pin according to claim 18, wherein:
said plurality of grooves includes three grooves spaced apart 120° about said

20. (original) A fracture fixation pin according to claim 18, wherein:

each of said grooves has a depth which extends below said second threads.

- 21. (currently amended) A fracture fixation pin system, comprising:
- a) a pin including
- i) a <u>non-hollow</u> first portion having a first diameter and first threads of a first thread diameter, said first portion having a tip at one end and a second end, and
- ii) a <u>non-hollow</u> second portion having a first end coupled to said second end of said first portion and a second free end, said second portion having a second diameter larger than said first diameter, and second threads of a second thread diameter larger than said first thread diameter, said first and second threads being continuous with each other and having a common pitch and thread depth, wherein said second free end is provided with a plurality longitudinal grooves spaced-apart about a <u>an outer</u> circumference of said second portion; and

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b) a driver member including a socket having structure adapted to interfere with said grooves on said second portion of said pin.

22. (original) A fracture fixation pin system according to claim 21, further comprising:

- c) a mill tool having structure adapted to remove bone and define an opening in the bone into which said socket of said driver member can be inserted.
- 23. (currently amended) A fracture fixation pin, comprising:

a pin having a threaded portion provided with threads and a shaft portion, said threaded portion including a tip end and an opposite end, said opposite end including a plurality of longitudinal grooves extending parallel to/a longitudinal axis of said pin and located adjacent said shaft portion and spaced-apart about a an outer circumference of said threaded portion.

24. (currently amended) A fracture fixation pin according to claim 22 23, wherein: said grooves interrupt said threads.

25. (currently amended) A fracture fixation pin according to claim 22 23, wherein:
said plurality of grooves comprise exactly three grooves spaced apart 120° about
the circumference of the threaded portion.

- 26. (currently amended) A fracture fixation pin according to claim 22 23, wherein:
 each of said grooves has a depth which extends below said threads at a location of said grooves.
- 27. (currently amended) A fracture fixation pin according to claim 22 23, wherein:
 said threaded portion includes a first portion having a first diameter and first
 threads of a first thread diameter, and a second portion having a second diameter larger
 than said first diameter and second threads of a second thread diameter larger than said
 first thread diameter.
 - 28. (original) A fracture fixation pin according to claim 27, wherein: said first and second threads are continuous with each other.
 - 29. (original) A fracture fixation pin according to claim 27, wherein: said first and second threads have a common pitch.
 - 30. (original) A fracture fixation pin according to claim 27, wherein: said first and second threads have a common thread depth.
 - 31. (currently amended) A fracture fixation pin system, comprising:
 - a) a pin having a first portion provided with threads and a shaft portion, said first portion including a tip end and an opposite end, said opposite end including a plurality of

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longitudinal grooves adjacent said shaft portion and spaced-apart about a an outer circumference of said first portion; and

b) a driver member including a socket having structure adapted to interfere with said grooves on said first portion of said pin.

32. (original) A fracture fixation pin system according to claim 31, further comprising:

c) a mill tool having structure adapted to/remove bone and define an opening in the bone into which said socket of said driver member can be inserted.